

In the specification:

Page 1, lines 4-6, please amend the paragraph as follows:

The invention relates to compositions of nitrogen-potash fertilizers containing ~~carbamide~~ urea and a potassium-containing component as well as to methods of producing them and may be used in the chemical industry and agriculture.

Page 1, lines 8-25, please amend the paragraphs as follows:

Known in the art is a nitrogen-potash fertilizer in the form of a mixture containing (15 - 18) % by wt. of ~~carbamide~~ urea and powdered potassium chloride, which is produced in accordance with a method for producing a nitrogen-potash fertilizer (SU 966087, C 05 D 1/02, 1982). The main disadvantage of the fertilizer is its high water absorbency.

Also known in the art is a nitrogen-potash fertilizer in the form of a mixture containing (10 - 50) % by wt. of ~~carbamide~~ urea and/or ammonium nitrate and potassium chloride, which is produced in accordance with a method for producing granulated nitrogen-potash fertilizers (FR 1476296, C 05 D 1/02, 1966). In a case of using ~~carbamide~~ urea the nitrogen content is (4.6 - 23) % by wt. The main disadvantage of the fertilizer is a small quantity of nitrogen as a nutrient and, moreover, granules have irregular volumetric composition.

Known is a nitrogen-potash fertilizer in the form of a mixture of substandard components, namely, (35 - 90) % by wt. of ~~carbamide~~ urea and potassium chloride. In particular, as ~~carbamide~~ urea a powdered semi-finished product is used, which is formed in the production of ~~carbamide~~ urea after separating the crystallized product from the mother solution, and cyclone dust, taken at the stage of drying and dust removal of flotation potassium chloride, is used as potassium chloride (RU 2100326, C 05 D 1/00, 1997) The main disadvantage of that fertilizer is its poor quality due to presence of impurities undesirable in agriculture, which are present in substandard components, namely NaCl, MgCl₂, MgBr₂, etc.

Page 1, line 30 - page 2, line 6, please amend the paragraphs as follows:

The closest as to the composition and the properties to this invention is a nitrogen-potash fertilizer containing ~~carbamide~~ urea and the potassium-containing component in the form of potassium chloride. The ratio of the components (in % by weight) is: (NH₂)₂CO taken as N - (41.4 - 45.2) and KCl taken as K₂O - (1 - 5.94) (RU 2154621, C 05 D 1/00, 2000).

The method for producing the said fertilizer includes granulation of a produced mixture of ~~carbamide~~ urea and potassium chloride in

a granulating tower; thus obtained granules are insufficiently robust, in the order of 600 g/granule.

One more disadvantage of the known fertilizer is that it comprises the potassium-containing component in the form of potassium chloride only. Furthermore, the ~~potassium~~ chloride content of that product is ~~low~~ high, which reduces its efficiency when being applied, e.g., for tobacco ~~and palm~~ cultures, vegetables and potato.

Page 2, lines 12-25, please amend the paragraphs as follows:

The stated objective is achieved owing to the fact that in the nitrogen-potash fertilizer, which comprises ~~carbamide~~ urea and a potassium-containing component, the latter is a mixture of potassium sulfate and potassium chloride at the following ratio of the components (in % by weight): $(\text{NH}_2)_2\text{CO}$ taken as N - (12 - 43), a mixture of K_2SO_4 and KCl taken as K_2O - (3 - 40).

Furthermore, the potassium chloride content of the mixture is selected in the range of ~~0.1 - 99.9 %~~ 1 - 99.1 % by weight.

Furthermore, the method of producing the nitrogen-potash fertilizer, including mixing ~~carbamide~~ 90% water solution of urea and a ~~potassium-containing~~ component containing potassium sulfate and chloride in form of a powder ~~and granulating the obtained pulp, is characterized in that the said potassium-containing component additionally contains potassium sulfate, carbamide is~~

~~taken in the form of a solution when producing a mixture, and a~~
~~potassium-containing component is taken in the quantity of 5 - 67~~
% by weight; further, the obtained pulp is granulated in a
~~granulating drum~~ granulator-drier (DGD) at a temperature from
100° to 140°C, and the temperature lowering rate of the
granulated product along the length of the drum is maintained in
the range from 1.9 to 3.8°C/m of the drum length.

Page 2, line 26, beginning with the paragraph that starts with
this text: "The main distinguishing features of the inventive
nitrogen-potash fertilizer are that . . ." to page 3, line 3,
please delete these paragraphs.

Page 3, lines 4-10, please amend the paragraph as follows:

The present invention complies with the patentability criterion
"novelty", since no technical solution has been found in the
prior art, which essential features would fully coincide with the
features contained in the independent claim. No references have
been found on a fertilizer comprising ~~carbamide~~ urea and a
mixture of potassium sulfate and potassium chloride, as well as
on the method for producing it. This invention also complies with
the patentability criterion "inventive step", since no
description of a technical solution is contained in the prior
art, which distinctive features would be aimed at solving a
technical task at which this invention is aimed.

Page 3, line 13 - 26, please amend the paragraph as follows:

In accordance with this invention ~~carbamide~~ urea in the form of a 90% ~~carbamide~~ water urea solution is fed to a mixer in the quantity of 26.39 t/h, and a potassium-containing component, being a mixture of potassium sulfate and potassium chloride is fed to the mixer in the quantity of 1.25 t/h, which accounts for 5 % by weight of the total quantity of the components in the mixer. The temperature of the potassium-containing component is from 60° to 70°C. The potassium chloride content of the potassium-containing components mixture is 99.9% by weight. Then the pulp is fed to granulation in a ~~granulating~~ drum granulator-drier (DGD) having 4.5 m in diameter and 16 m in length. The speed of the ~~granulating~~ drum granulator-drier (DGD) is 4.2 revolutions per minute. The temperature in the granulation zone is 135°C. The granulated product exiting the drum has the temperature from 70° to 75°C and contains N - 43.0% by weight, K₂O - 3.0% by weight, H₂O - 0.2% by weight. The biuret content is 0.7% by weight. The finished product exiting the ~~granulating~~ drum granulator-drier (DGD) has the following gradation: ~~1-4~~ 2-4 mm fraction - at least ~~90%~~ 95%, less than 1 mm fraction - up to 3%, more than 6 mm fraction - nil. The granule strength is 1200 g/granule. The average finished product output is 25 t/h. The temperature lowering rate of the granulated product along the length of the drum is 3.8° per 1 meter of the drum length.

Page 3, line 29- page 4, line 3, please amend the paragraph as follows:

~~Carbamide~~ urea in the form of a 90% ~~carbamide~~ water urea solution is fed to a mixer in the quantity of 9.17 t/h, and a potassium-containing component, being a mixture of potassium sulfate and potassium chloride is fed to the mixer in the quantity of 16.75 t/h, which accounts for 67% by weight of the total quantity of the components in the mixer. The potassium sulfate content of the potassium-containing components mixture is 99.9% by weight. The temperature in the granulation zone was 101°C. The granulated product exiting the drum contains N - 15.18% by weight, K₂O - 33.5% by weight. The temperature lowering rate of the granulated product along the length of the drum, when producing the fertilizer with the said composition, is taken as 1.9° per 1 meter of the drum length.

Page 4, line 6 - 14, please amend the paragraph as follows:

~~Carbamide~~ urea in the form of a 90% ~~carbamide~~ water urea solution is fed to a mixer in the quantity of 13.9 t/h, and a potassium-containing component, being a mixture of potassium sulfate and potassium chloride, is fed to the mixer in the quantity of 12.5 t/h, which accounts for 50% by weight of the total quantity of the components in the mixer. The potassium sulfate and potassium chloride content of the mixture is 50.0% each by weight. The

temperature in the granulation zone is maintained at 105°C. The granulated product exiting the drum contains N - 23.0% by weight, K₂O - 27.5% by weight. The granule strength is ~~1190~~ 3690 g/granule. ~~The biuret content is 0.69% by weight.~~ The temperature lowering rate of the granulated product along the length of the drum is taken as 2.2° per 1 meter of the drum length.

Page 4, line 15, with the text beginning "Example 4." Through page 6, line 6, please delete these paragraphs.

Page 6, after the last line, please add the following paragraph:

At present with tightening of ecological standards in respect of manufacturing certain agricultural products chlorides content in their compound is limited. The present invention at maintaining the necessary proportion, for example 1N - 1.5K₂O, makes it possible to reduce the content of chlorides, substances injurious to human organism, to 0,1%.